SEQUENCE LISTING

13007	(1) GENEI	RAL INFORMATION:
	(i)	APPLICANT: Grotendorst, Gary R. Bradham Jr., Douglas M.,
5	(ii)	TITLE OF INVENTION: CONNECTIVE TISSUE GROWTH FACTOR
	(iii)	NUMBER OF SEQUENCES: 2
. 10	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Spensley Horn Jubas & Lubitz (B) STREET: 4225 Executive Square, Suite 1400 (C) CITY: La Jolla (D) STATE: CA (E) COUNTRY: US (F) ZIP: 92037
15	(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
20	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US (B) FILING DATE: 30-AUG-1991 (C) CLASSIFICATION:
25	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Wetherell, Jr. Ph.D., John W. (B) REGISTRATION NUMBER: 31,678 (C) REFERENCE/DOCKET NUMBER: PD-1294
30	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 619-455-5100 (B) TELEFAX: 619-455-5110

(2) INFORMATION FOR SEQ ID NO:1:

5	(i)	SEQUENCE CHARACTER: (A) LENGTH: 2075 1 (B) TYPE: nucleic (C) STRANDEDNESS: (D) TOPOLOGY: line	base pairs acid single		
	(ii)	MOLECULE TYPE: cDN	A		
	(vii)	IMMEDIATE SOURCE: (B) CLONE: DB60R3	2		
10	(ix)	FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 130	1177		
	(xi)	SEQUENCE DESCRIPTION	ON: SEQ ID NO:	1:	
	CCCGGCCG	AC AGCCCCGAGA CGACA	GCCCG GCGCGTCC	CG GTCCCCACCT CCGACCAC	CG 60
15	CCAGCGCT	CC AGGCCCCGCG CTCCC	CGCTC GCCGCCAC	CG CGCCCTCCGC TCCGCCCG	CA 120
	GTGCCAAC			GTC CGC GTC GCC TTC Val Arg Val Ala Phe 10	168
20				CC GTC GGC CAG AAC TGC	
	15	20		25	
			Asp Glu Pro A	CG CCG CGC TGC CCG GCC la Pro Arg Cys Pro Ala 40 45	1
25		Ser Leu Val Leu Asp	Gly Cys Gly C	GC TGC CGC GTC TGC GCC ys Cys Arg Val Cys Ala 60	
30				AC CCC TGC GAC CCG CAC Asp Pro Cys Asp Pro His	

		GGC Gly								_	_/	408
5		TGC Cys 95						_	_	_	_	456
		CGC Arg										504
10		CTG Leu										552
15		CTG Leu										600
		AAA Lys										648
20	_	GTT Val 175									_	696
		GAC Asp										744
25		AGC Ser										792
30		AAT Asn										840
		GTC Val							Lys			888

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	Lys	_	=	ATC Ile														936
5		•		TGC Cys														984
				GAC Asp													1	L032
10				TTC Phe 305													1	L080
15				AAG Lys	· · ·	•											1	L128
				GAA Glu												GCA 1	r 1	L177
	GAAG	CCAC	GAG A	AGTGA	AGAGA	C A	CTAAC	CTCAI	TAC	ACTO	GGAA	CTT	GAACT	CGA :	ITCA(CATCT		1237
20	ATTI	TTCC	CGT A	AAAA	ATGAI	T TO	CAGTA	AGCAC	CAAC	TTA	CTTA	AATO	CTGT	rr :	ICTA/	ACTGG	G :	L297
	GGAA	AAGA	ATT (CCCAC	CCAA	AT TO	CAAAA	ACATI	C GIO	CCA	IGTC	AAA	CAAA	CAG (rcta:	CTTC	c :	1357
: •	CCAC	CACAC	CTG (GTTTC	GAAGA	AA TO	GTTAA	AGACT	TGA	ACAG	rgga	ACTA	ACAT	CAG (TACA(CAGCA	c :	1417
·	CAGA	ATGT	CAT	ATTA	AGGT	ST GO	CTT	[AGG/	A GCA	AGTG	GGAG	GGTA	ACCG	GCC (CGGT	ragta:	r :	1477
•	CATO	CAGAT	CG .	ACTC	CTAT!	AC GA	AGTA	ATATO	GCC	[GCT/	ATTT	GAA	GTGTA	AAT '	TGAG	AAGGA	A :	1537
25	AATI	TTAC	GCG '	TGCT	CACTO	GA CO	CTGC	CTGTA	A GC	CCCA	GTGA	CAG	CTAG	GAT (GTGC	ATTCT(c :	1597
	CAGO	CAT	CAA	GAGA	CTGAC	ST CA	AAGT	rgtt(CI	[AAG]	ICAG	AAC	AGCA(GAC '	TCAG	CTCTG	A . :	1657
	CAT	CTG	ATT	CGAA	rgac <i>i</i>	AC TO	GTTC	AGGA	A TC	GGAA:	CCT	GTC	GATT	AGA (CTGG	ACAGC	r	1717
	TGT	GCA	AGT	GAATT	rtgc	CT G	raac <i>i</i>	AAGC	C AG	ATTT	TTTA	AAA'	rtta:	TAT	TGTA	AATAT	r	1777
	GTGT	[GTG]	rgt	GTGT	GTGT	GT A	rata:	rata:	r ata	TAT	GTAC	AGT.	ratc'	raa (GTTA	ATTTA	A	1837

	AGTI	GTTI	GT G	CCTI	TTTA	TI TI	TTGI	TITI	CAA	CCTT	TGA	TATI	TCAA	IG 1	TAGO	CTCAA	•	1897
	TTTC	TGAA	CA C	CATA	\GGTA	AG AA	ATGTA	AAGO	TTO	CTCTC	SATC	GTTC	AAAC	CA 1	[GAAA	TGGAT		1957
	ACTI	ATAI	GG A	AATI	CTG	T CA	AGATA	\GAA]	GAC	AGTO	CGT	CAAA	ACAC	SAT 1	GTT	GCAAA		2017
	GGGG	AGGC	AT (AGTG	TCT	CG GC	AGG	TGAT	TTO	TAGO	STAG	GAAA	TGT	GT A	AGCTO	CACG		2075
	(2)	INFO	RMAI	NOI	FOR	SEQ	ID N	10:2:					•					
•		((i) S	(B)	LEN TYI	NGTH: PE: a	349 umino	RIST ami aci	ino a		3							
	-1, 94	(i	Li) N	OLEC	CULE	TYPE	E: pr	cotei	in						•			
		(2	ci) S	EQUE	ENCE	DESC	CRIPT	CION	SEC	S ID	NO:2	2:						
	Met 1	Thr	Ala	Ala	Ser 5	Met	Gly	Pro	Val	Arg 10	Val	Ala	Phe	Val	Val 15	Leu		
	Leu	Ala	Leu	Cys 20	Ser	Arg	Pro	Ala	Val 25	Gly	Gln	Asn	Cys	Ser 30	Gly	Pro		
	Cys	Arg	Cys 35	Pro	Asp	Glu	Pro	Ala 40	Pro	Arg	Cys	Pro	Ala 45	Gly	Val	Ser		
	Leu	Val 50	Leu	Asp	Gly		Gly 55		Cys	Arg	Val	Cys 60	Ala	Lys	Gln	Leu	-	
·	Gly 65	Glu	Leu	Cys	Thr	Glu 70	Arg	Asp	Pro	Cys	Asp 75	Pro	His	Lys	Gly	Leu 80		
	Phe	Cys	Asp	Phe	Gly 85	Ser	Pro	Ala	Asn	Arg 90	Lys	Ile	Gly	Val	Cys 95	Thr		
	Ala	Lys	Asp	Gly 100	Ala	Pro	Cys	Ile	Phe 105	Gly	Gly	Thr	Val	Tyr 110	Arg	Ser		
	Gly	Glu	Ser 115	Phe	Gln	Ser	Ser	Cys 120	Lys	Tyr	Gln	Cys	Thr 125	Cys	Leu	Asp		

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	Gly	Ala 130	Val	Gly	Cys	Met	Pro 135	Leu	Cys	Ser	Met	Asp 140	Val	Arg	Leu	Pro
	Ser 145	Pro	Asp	Cys	Pro	Phe 150	Pro	Arg	Arg	Val	Lys 155	Leu	Pro	Gly	Lys	Cys 160
5	Cys	Glu	Glu	Trp	Val 165	Cys	Asp	Glu	Pro	Lys 170	Asp	Gln	Thr	Val	Val 175	Gly
	Pro	Ala	Leu	Ala 180	Ala	Tyr	Arg	Leu	Glu 185	Asp	Thr	Phe	Gly	Pro 190	Asp	Pro
10	Thr	Met	Ile 195	Arg	Ala	Asn	Cys	Leu 200	Val	Gln	Thr	Thr	Glu 205	Trp	Ser	Ala
	-	Ser 210	Lys	Thr	Cys ⁻	Gly	Met 215	Gly	Ile	Ser	Thr	Arg 220	Val	Thr	Asn	Asp
	Asn 225	Ala	Ser	Cys	Arg	Leu 230	Glu	Lys	Gln	Ser	Arg 235	Leu	Cys	Met	Val	Arg 240
15	Pro	Cys	Glu	Ala	Asp 245	Leu	Glu	Glu	Asn	Ile 250	Lys	Lys	Gly	Lys	Lys 255	Cys
-	Ile	Arg	Thr	Pro 260	Lys	Ile	Ser	Lys	Pro 265	Ile	Lys	Phe	Glu	Leu 270	Ser	Gly
20	Cys	Thr	Ser 275	Met	Lys	Thr	Tyr	Arg 280	Ala	Lys	Phe	Cys	Gly 285	Val	Cys	Thr
	Asp	Gly 290	Arg	Cys	Cys	Thr	Pro 295	His	Arg	Thr	Thr	Thr 300	Leu	Pro	Val	Glu
	Phe 305	Lys	Cys	Pro	Asp	Gly 310	Glu	Val	Met	Lys	Lys 315	Asn	Met	Met	Phe	Ile 320
25	Lys	Thr	Cys	Ala	Cys 325	His	Tyr	Asn	Cys	Pro 330	Gly	Asp	Asn	Asp	Ile 335	Phe
,	Glu	Ser	Leu	Tyr 340	Tyr	Arg	Lys	Met	Tyr 345	Gly	Asp	Met	Ala			

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